H Series——

IP Camera

▫ Version 2.1 ▫

2009.7

User Manual

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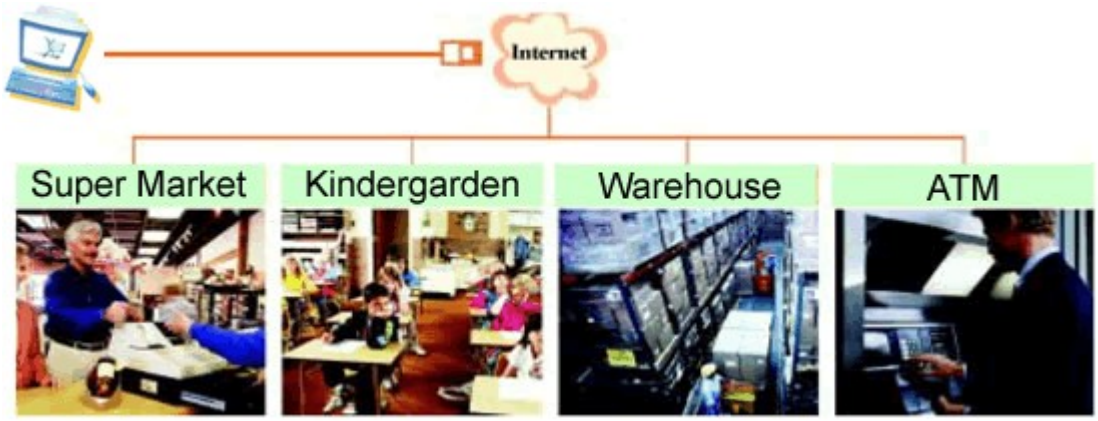
1 Introduction

The IP Camera combines a high quality digital video camera with network connectivity and a powerful web server to bring clear video to your desktop from anywhere on network or over the Internet.



	Your IP Camera package should contain the following items, If any of the listed items are missing, please contact your reseller from where you purchased the camera for assistance.

The package includes:

- ✓ IP Camera * 1
- ✓ IP Camera Utility CD *1
- ✓ 5V Power Adapter *1
- ✓ Stand of plastic * 1
- ✓ Cable * 1

	If you need the device with wifi function, please choose the model of /W, it has built-in wifi module and transmitting antenna.

2 Function and Features

- ✓ 32-bits RISC processor and special video encoder which can be up to encoding performance

- ✓ Support H.264Main Profile@ Level3.0compression format, bit rate is smaller, and the image is more clear. It is more convenient for transferring through Internet and save more storage space.
- ✓ VGA/QVGA/QQVGA resolution optional. User can change some specification according to their demands to satisfy his own visual prefer.
- ✓ Support mobile phone watching.
- ✓ Built-in microphone, and also support external audio si recording; External speaker can play the voice sent to the live scene, to achieve two-way intercom function.
- ✓ Built-in Pan/Tilt, horizontally 350°, vertically 60°. This equipment is smart and beautiful, very easy to install and use in many occasions.
- ✓ Built-in web server, support video view and parameter settings by browser; use one port to send all the data, it facilitates network setting.
- ✓ Support 802.11b/g protocol, can build up wireless monitoring.
- ✓ Support UPNP, port forwarding automatically on the router.
- ✓ Support maxim 32G SD card for video and picture storage.
- ✓ Motion detection and alarm pin can be connected to external sen environmental situation.
- ✓ Alarming record can be stored by email, SD card, FTP server. External alarm can be open when detecting unusuality. It also sends alarm info to the alarm server.
- ✓ Infrared LED for night vision covers 5m area, to realize 24 hours monitoring.
- ✓ Support three level of user authority.
- ✓ Support upgrading online.
- ✓ Manufacture attached a label at the bottom of each IP Camera, it include Device ID, DDNS. When IP Camera is connected to the internet, this URL can be used to visit the device.
- ✓ Manufacture provides free software, support Multi-view, Long time reco replay etc.
- ✓ Support video view by other browsers like as firefox, safari etc.

3 Appearance and interface

3.1 Appearance

Figure 1

1——IR Lights 2——Lens 3——Photovaristor
4——Internal Mic Hole 5——Power Indicator 6——WIFI Indicator
7——Shell 8——Heat Dissipation Hole 9——SD Card Socket

Remarks:

- **Power Indicator:** it will turn RED if equipment was powered on.
- **WIFI Indicator:** if there is a WIFI module in the equipment, and there transferring by WIFI, it will begins twinkle.

3.2 Interface of Equipment

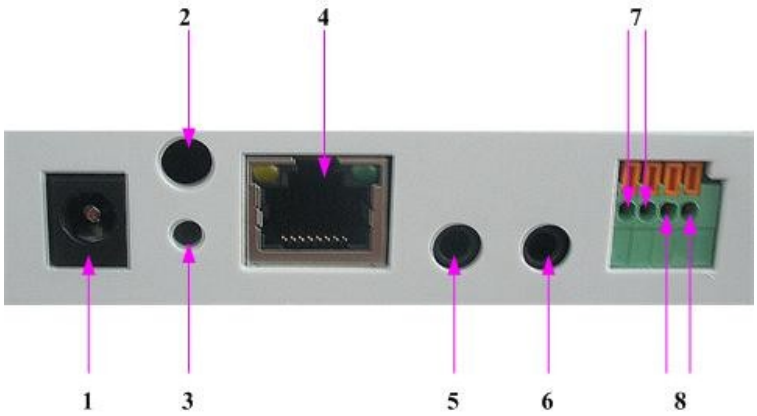


Figure 2

1、 **Power Input Socket:** Connect DC adaptor, its output should be 5V power specification.

2、 **WIFI Antenna Hole:** Install the WIFI antenna.

3、 **RESET Button:** Press the RESET button and hold on more than 5 seconds, equipment will restart and recover to the factory default settings. The Pan/Tilt will move around for one circle and finally focus to the center.

4、 **RJ45 Ethernet Socket:** RJ45 Ethernet socket is 10/100M self-adjust. The equipment can connect to all kinds of network equipments, such as hub, router, switch, etc. If it is connect to the 10M network, the orange light will light on, if it is connect to the 100M network, the green light will light on too.

5、 **Audio Input Socket:** Audio input socket is designed for con microphone or line-in audio signal. Please refer to 7.1.2 and select right settings.

6、 **Audio Output Socket:** Audio output socket is for line-out audio player, s headphone, speaker, etc.

7、 **Alarm Output Socket:** The alarm output socket is connected with a relay in the IP camera. IP camera will control the switch to trigger the alarm bell or buzzer to alarm. The relay is able to control the switch of a alarm whose voltage is no more than 36V, and current is lower than 2A. Please refer to the Figure 3 for the connection of external alarm.

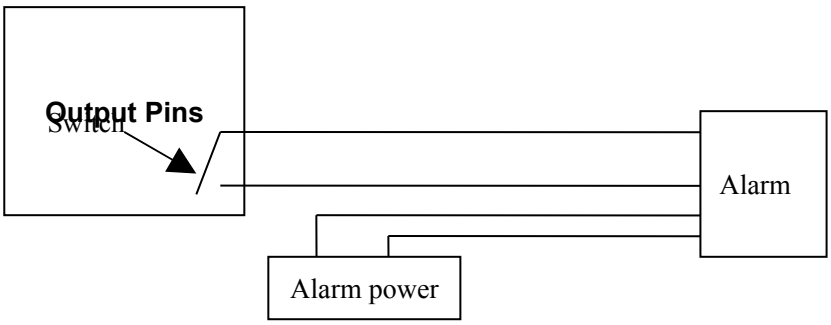


Figure 3

8、 **Alarming Input Pins:** Please refer to the schematic Diagram of Figure 4 for external detector collects alarm information.

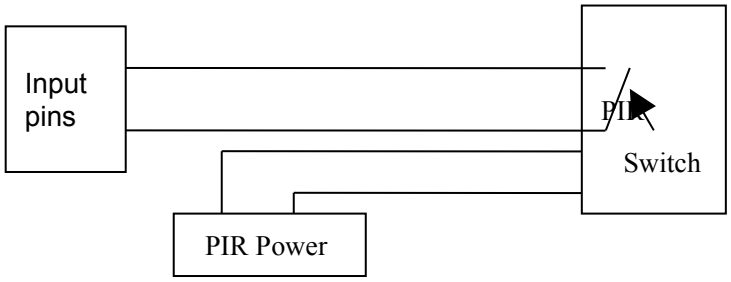


Figure 4

The detector should be switched type (always on or always off). If the detector has detected the smoke or people or animal to enter the area, the detector will switch on or switch off. And it will send the external alarm signal into the IP camera.

4 Network Connecting

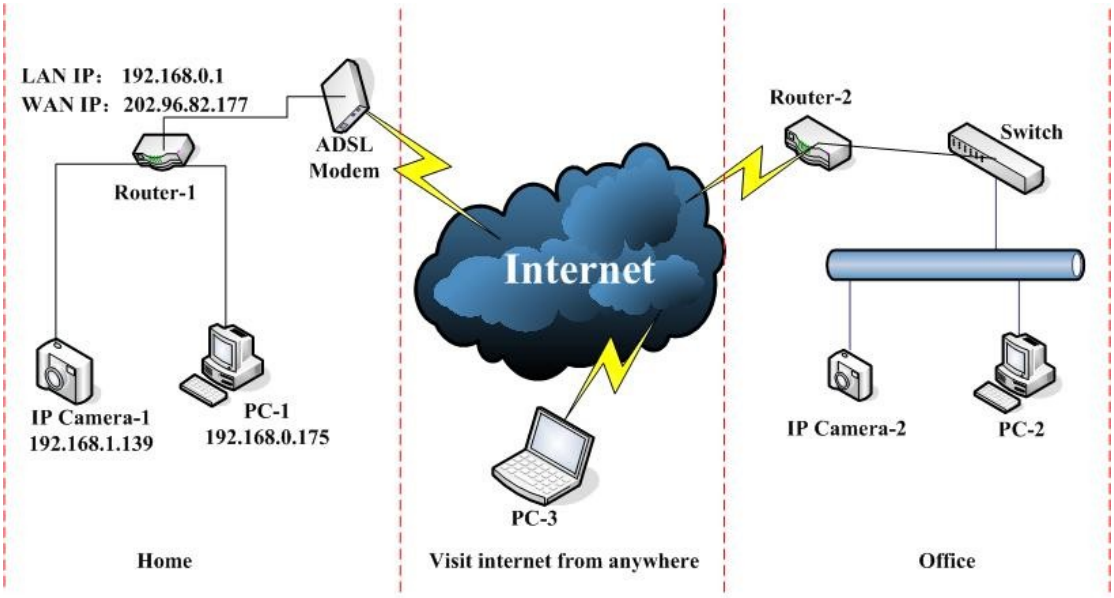


Figure 5

IP Camera can be connected with other PC through router, switch or hub to establish network. Figure 5 shown connections.

4.1 Connection Instruction

Before visit the IP Camera, you should firstly connect it to the Network, supply the power to it, and check if the light of RJ45 Socket is normal to make sure all of the communication links are fluency. The connection method likes as Figure 5.

1) IP Camera-1 and IP Camera-2 are connected separately to 2 different LANs.
2) And these 2 LANs are already connected to the Internet. In order to get the LANs to be

connected to the Internet, they are required to be equipped with router and to apply for the communication link from the local Internet Service Provider (ISP) and connect to it by ADSL or optical fiber, etc.

3) PC-3 is connected to the Internet.

4.2 Visit Instruction

To visit the IP Camera, you should do some settings of IP Camera and Internet beside getting the communication link fluency.

1) The PC and IP Camera are in the same LAN. If you want to use this PC to visit the IP Camera, you need to make sure their IP address is at the same segment. Otherwise you need to do the reset of the IP Camera's IP address. For example, the IP Camera-1's IP address in Figure 5 is 192.168.1.139 (at the segment of 192.168.1), while the PC-1's IP address is 192.168.0.175 (at the segment of 192.168.0), then you will be not able to visit the IP Camera through the PC-1. You need to change the IP Camera-1's IP address to 192.168.0.139 firstly.

2) The PC and IP Camera are in different LANs, but they are all connected to Internet. For the IP Camera-1 and PC-2 in Figure 5, if you want to visit IP Camera-1 by PC-2, you should firstly do the setting as 1) to make sure that you can visit IP Camera-1 through PC-1 and then do the setting of router-1 (do the port forwarding from the router). The PC-2's visitapplication could be sent through router-1 to IP Camera-1. Normally, PC-2 could only send the information to router-1, if you don't do the setting of router-1, then PC-2 could not visit IP Camera-1.

5 Visit IP Camera from LAN

5.1 Set IP Address

The IP addresses of IP Camera and PC should be at the same segment, in Figure 5, the IP Camera-1 can't be visited. Run the HSearch_en.exe in the CD, click Search button, then select the IP Camera to reset the IP Camera's IP address, as the Figure 6.

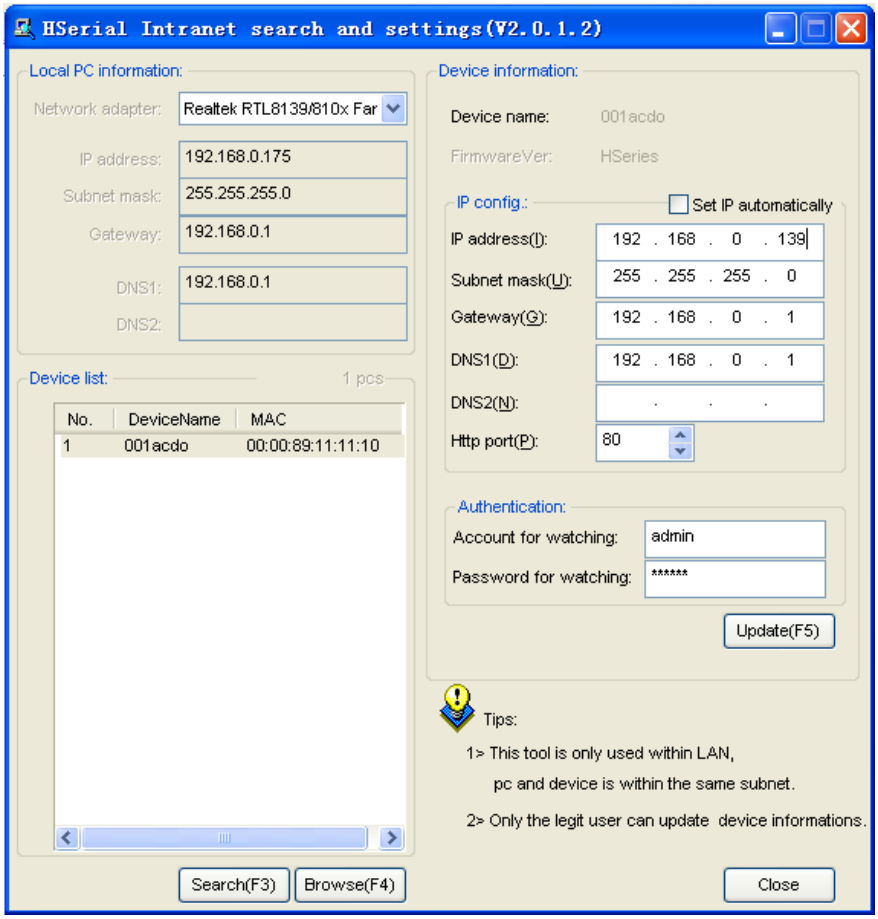


Figure 6

	If you have the firewall software in your PC, when you run the HSearch_en.exe, it may pop up a window to say if you want to block this program or not, then you should choose not to block.

	IP Camera by default use fixed IP address 192.168.0.158 and fixed http port 80. If you don't have this software, you could also press down the reset button (Figure 2) to go back the factory setting. Then you could use this defaulted IP address to visit the IP Camera.

Setting Instruction:

- ✓ Please carefully check the "Local PC information" on the top left corner which lists the PC configuration. If there are several network adapters in the PC, please select the one you are using and make sure the IP address of IP Camera is as the same segment of the PC.
- ✓ Change the content of "IP config" on the right to make sure the content is the same as "Local PC information". Only the last section of the IP address which needs setting by yourself, you can set it as 139 just like Figure 6.
- ✓ If you don't know how to fill out the content of "IP config", you could also tick the "Set IP automatically" to get the IP add
(If can't get IP from router, the IP Camera will set it to 1

itself).

✓ Put the user name and password into “Authentication”(***By default, the user name is: admin, password is: 123456***) Click “Update”. The setting will take effect now. Select the device in list box, click “Browse” button, it will open the Browser automatically and pop up a window at the same time which requires to inputting the user nam password. Then you see the home page of the IP Camera-1, just as below Figure 7.

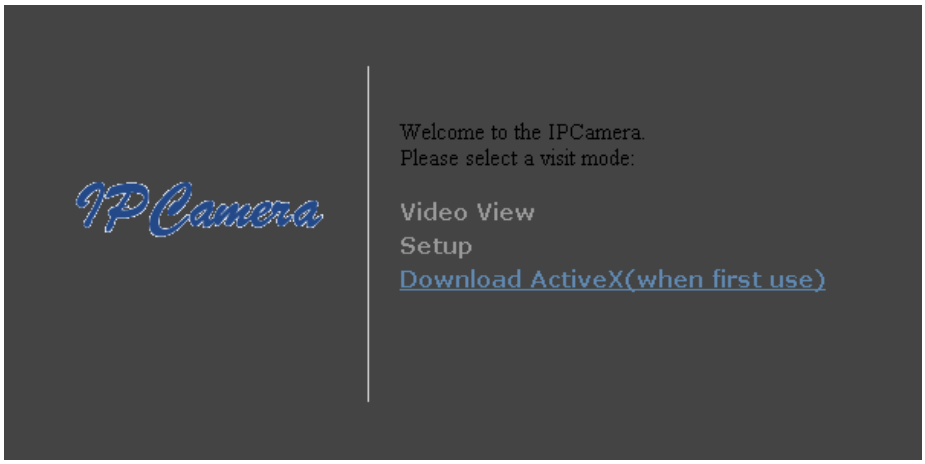


Figure 7

5.2 Visit IP Camera

If you use internet explorer or compatible browser to visit it for the first time, you will required to install the ActiveX before viewing the video. As Figure 7, click “Download ActiveX (when first use)”. The dialog just as Figure 8 will pop up accordingly. Click “Run”, then it will download and install the ActiveX automatically.

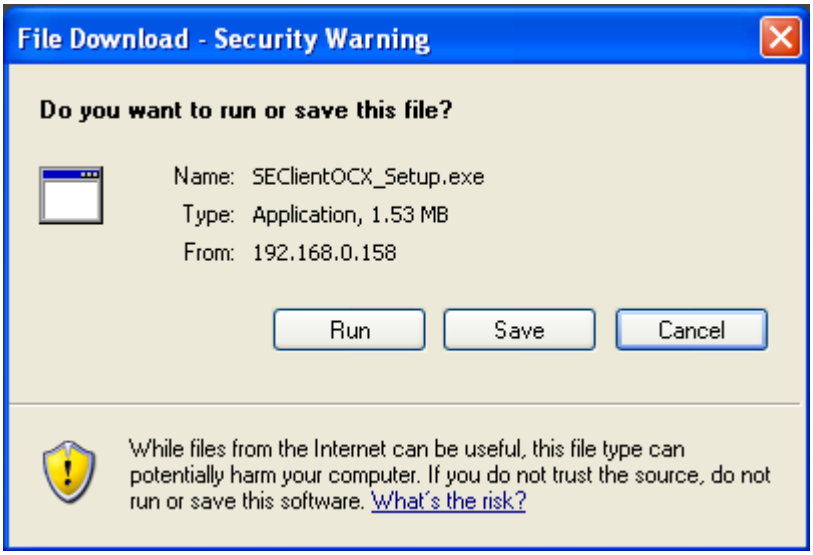

File Download - Security Warning
Do you want to run or save this file?
Name: SEClientOCX_Setup.exe
Type: Application, 1.53 MB
From: 192.168.0.158
Run
Save
Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

Figure 8

After the ActiveX installation, click the “Video View” as Figure 7, then you will enter the video view home page as below Figure 9.

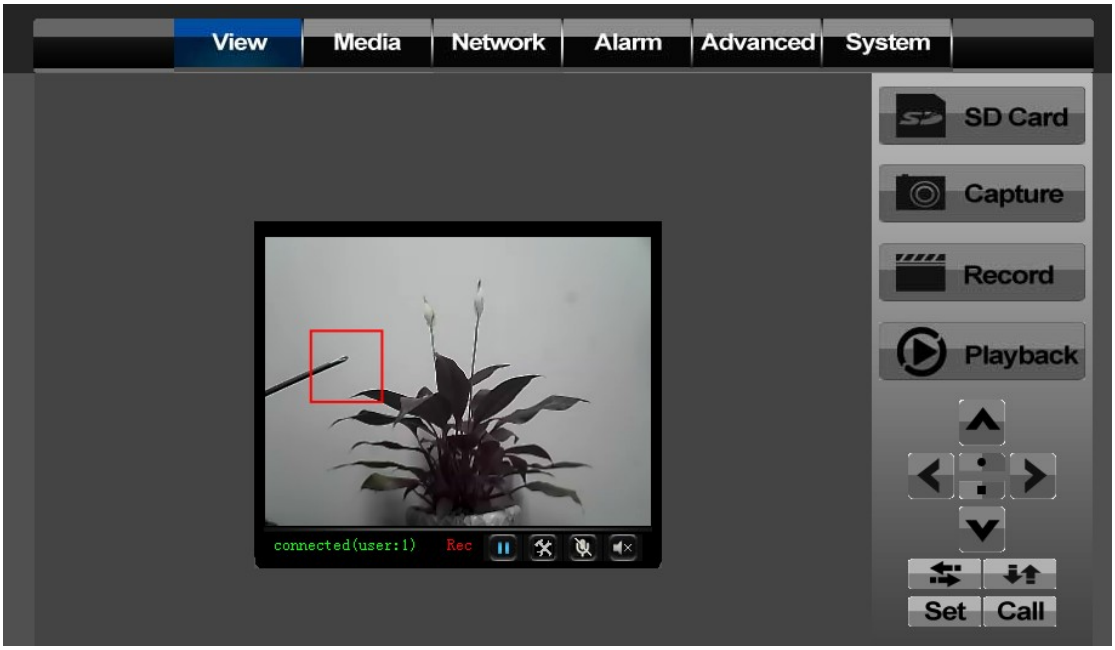


Figure 9

5.2.1 Menu column

There are 2 kinds of menu, one is main menu, the other is submenu. The main menu lies at the top of the interface, including View, Media, Network, Alarm, Advanced and Submenu lies on the left of the interface, and different main menu is in line with differe submenu.

5.2.2 Video Displaying Area

The video displaying area is correspond to the resolution, the higher the resolution is, larger the displaying area will be. If motion detection was set, when it has detected any movements of the certain area, it will show a pane to call user's attention.

Figure 10 is status column at the bottom of video displaying area.

Figure 10

1 Displaying how many users are visiting this video.

2 If user has clicked the "Record" button in the Figure 9, here will show "Rec", means the video is being recorded. If click the "Record" button again, it will stop recording.

3 **Play/Pause Button:** Click it for video play or pause video play.

4 **File Saving Path Setting:** User can click it to browse a file saving path to save the recorded video and snapshots.

5 **Talk-back Button:** Click it, and the stereo equipment which was connected to the IP Camera will play the achieved audio. Click it again, the speaker will stop playing.

6 **Audio Play Button:** Click it to play the audio getting from IP Camera, click it again, it will disable this function.

5.2.3 Browse SD Card

When SD Card inserted, click the submenu, the pop-up page will display the content in SD Card like the Figure 11.

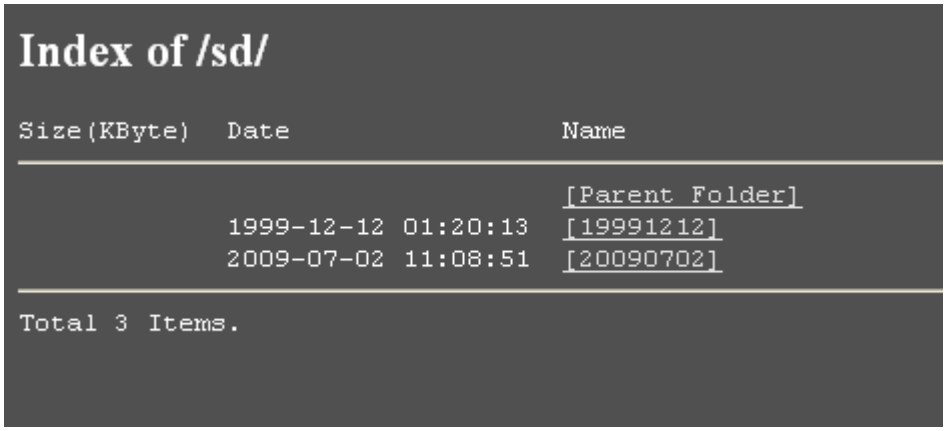


Figure 11

In above figure, text in [ ] is catalog info, click sub catalog to browse the recorded images and videos. The images will be displayed when you click them and the video downloaded and played by the video player in user's computer automatically when click the video.

5.2.4 Capture

Click the “Capture” button, which could take photos for the current video and store the image at the present path.

5.2.5 Record

Click “Record” button, which could record the video with audio and store it at the present path. When recording, there will be an indicated symbol in the status of video display area to show you it is recording. Click the “Record” button again, and then the record stops.

5.2.6 Playback

Click “Playback” button, it will pop up a player which could play the video stored on your PC disk.

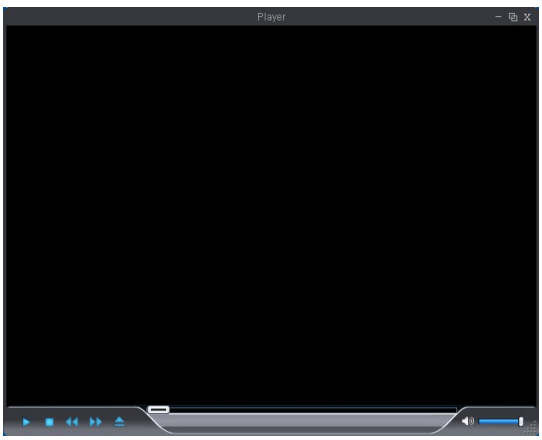


Figure 12

, these buttons are for play, stop, the previous record

recorder, open the recorder file. Please click the button of "open the recorder file" firs
select the file you want to play, you can playback the recorder.

5.2.7 The control of Pan/Tilt

At the control area of Pan/Tilt, the user could control the cruise of the Pan/
arrowhead direction (Up/Down/Left/Right/Centre/Sto
When your mouse stops on these control buttons, it will guide you what this button mean.
When the IP Camera turns to some position, you can click the "Set" Button, w
continue to control the Pan/tilt to turn to other position, you could click the "Call" button, the Pan/Tilt will go back the pre-position.

5.3 Notice (for the first time use)

Please change the following 2 settings when using for the first time:

1) Please refer to the content of part 7.4.1 to change the initial passwords of admin, user, and guest. Their initial passwords are respectively "123456", "user", "guest".
2) Refer to the content of part 7.5.1 to set the system time.

6 Visit IP Camera from WAN

6.1 Port forwarding

Follow the "Visit IP Camera from LAN" steps; make sure PC-1 can visit IP Camera-1. Figure 5, before the computers in WAN (PC-2, PC-3) can visit the IP Camera-1, must put the IP Camera -1 into WAN. You can set port forwarding on Router-1 to put IP Camera-1 into WAN.

Open the Router Setting interface on PC-1. The interfaces for different routers are different, and the port forwarding settings are different, please refer the router manual to set. For most routers, "Virtual server" option can be found in setting interface. Fill the IP address and port of IP Camera-1 into corresponding blank. Figure 13 is an example.

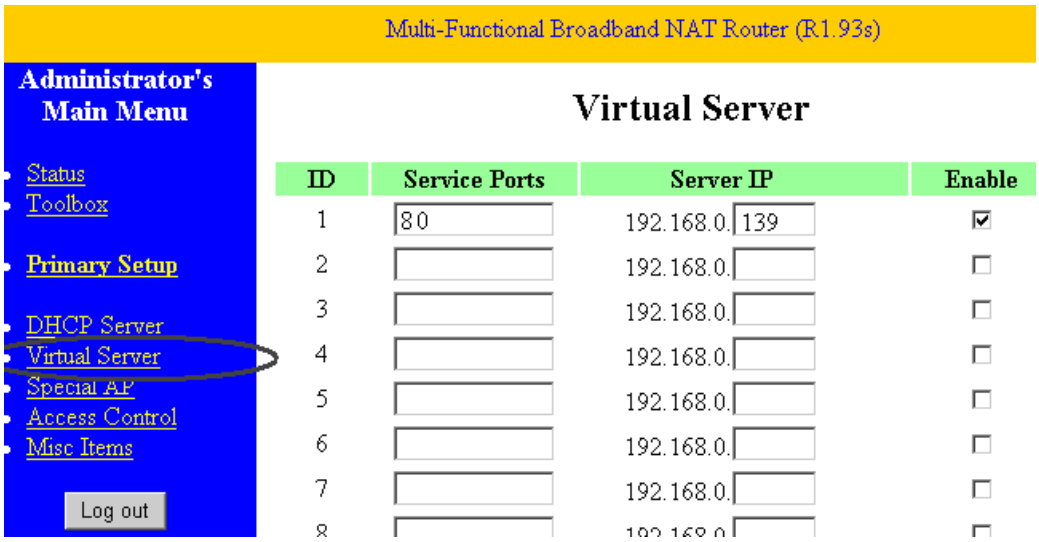


Figure 13

Select “status” option and remember the WAN IP address, enter the IP address in browser of PC-1, if IP Camra-1 can be visited via PC-1, the port forwarding is success. And PC-2 and PC-3 can also visit the IP Camera-1.

	WAN IP address is allotted by ISP, please make sure it’s an available WAN IP address. As WAN IP address is lack, many WAN IP address are available in limited area. If PC-2 and PC-3 are not in this area, the IP Camera-1 won’t be visited by them.

	If user wants to put several IP Cameras into WAN, every device should set the port forwarding. In order to distinguish these devices, every device should set a different port. If the port of the device is not 80, should add the port to IP address with colon to visit the IP Camera. Example: http://202.96.82.177:81.

6.2 DDNS

In Figure 5, Router-1 get WAN IP address via ADSL, these WAN IP address is alwa changing, so, the IP address can’t be confirmed when visit the device in WAN. We need the dynamic domain name server (DDNS). IP Camera-1 send IP configuration to DDNS every few time, DDNS can recognize the WAN IP address of the router-1 which connected with IP Camera-1. The WAN IP address can be searched on DDNS by domain name. He domain name substitute the dynamic IP address. If the device can’t be visited by IP address, this domain name is also unavailable.

6.2.1 Manufacturer’s Domain Name

Device manufacturer has established a DDNS, and allotted a dynamic domain na every device, the domain name has been integrated into devices when produc example, enter domain name of Figure 14, the browser will connect the device and display the IP address.

Figure 14

	The domain name is realized by forward manner, the domain name will change into the IP address and port number of the device when visit by domain name.

	If the device can be visited by IP address but can't be visited by manufacturer's domain name, please check the DNS info is available or not and make sure the DNS setting is the same with the DNS setting of PC in LAN.

6.2.2 Third Part Domain Name

User can also use third part DDNS, such as www.3322.org. User should apply a free domain name from this website and fill the info into the below blanks (Figure 15) and sa settings. Then the domain name can be used.

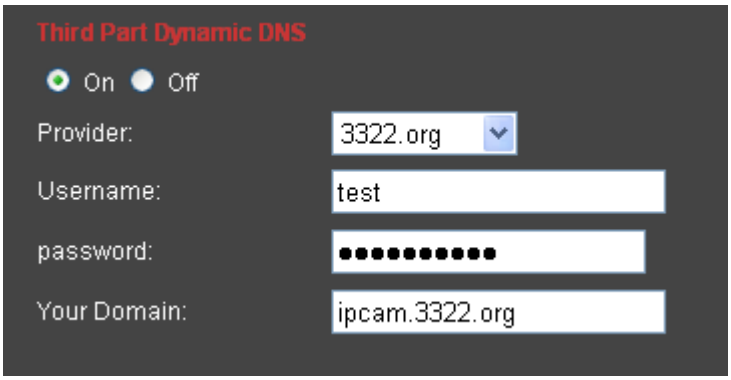


Figure 15

	The third party domain name is realized by analysis manner, the domain name will be displayed in the browser all the time when visit camera. If the port is not 80, the port number should be add to the domain name with colon. Example: ***http://ipcam.3322.org:81***

7 Other Settings

7.1 Video Setting Page

7.1.1 Image Setting

Figure 16

1) **Color Adjustment:** Drag the glide bar showed as above Figure 16, user can adjust the brightness, saturation, contrast, hue.
2) **Image Display Adjustment:** There are “Flip” and “Mirror” two options, select it for the image display.
3) **Night vision mode:** If you choose “auto” mode, IR lights will be lighted on and shut off by the photoresistance. If you choose manual mode, you can light on and shut off the IR light manually.
4) **White Balance:** There are auto, Indoor, Outdoor three white balance mo options.

7.1.2 Video Setting

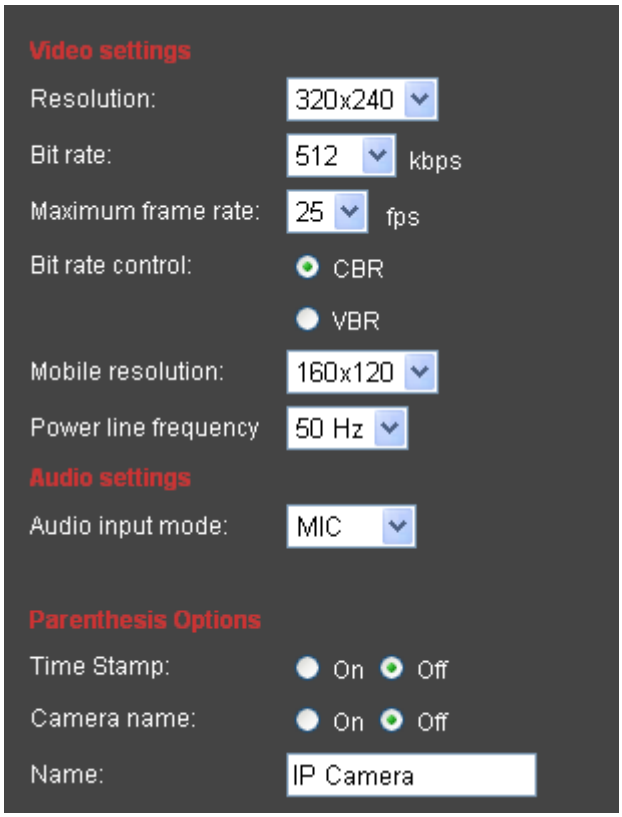


Figure 17

1. **Resolution**: You can adjust the resolution of the video. There are QVGA(320*240) and QQVGA(160*120) three resolution options. The bigger the resolution is, more clear the image will be. On the other hand the bit rate is bigger and takes more bandwidth.
2. **Bit Rate Adjustment**: User can choose a certain bit rate, generally speaking, the bigger the bit rate is, the more clear the image will be. Please choose the suitable bit rate according to your bandwidth. If you select a big bit rate, while the bandwidth worse, it will cause the video stream can't be transferred smoothly, the video quality will be not perfect too.
3. **Max Frame Rate Adjustment**: User can choose a certain frame rate, when the bandwidth is limited, suggest reducing the value. Generally, the video is fluency if the value is more 15 frames.
4. **Bit Rate Control**: There are two modes for bit rate control, CBR and VBR. If user choose CBR mode, the video encoder will encode according to the bit rate you have selected. If user choose VBR mode, the video encoder will consider to the image quality and encode according to the bit rated have been selected, but not strictly according to this bit rate.
5. **Mobile Resolution**: If using mobile visiting the IP camera, you should set the resolution of the image send to your mobile. For the bandwidth of the mobile is worse, we suggest you to select the lower resolution. Please refer to the Part 8 on how to visit the IP camera using mobile.
6. **Power Line Frequency**: If the monitoring site adopting lighting elimination, should set a corresponding frequency. If the two frequencies are different, the image

will flick. There are two frequencies on the world, one is 50HZ, and the other is 60HZ. In China, adopt 50HZ.

7 **Audio input mode:** If user use microphone, please select “MIC”; if use line-in audio signal, please select “Line in”.

8 **OSD Setting:** User can add the equipment’s name and the time on the video page thorough this setting.

7.2 Network Setting Page

7.2.1 Basic Network Setting

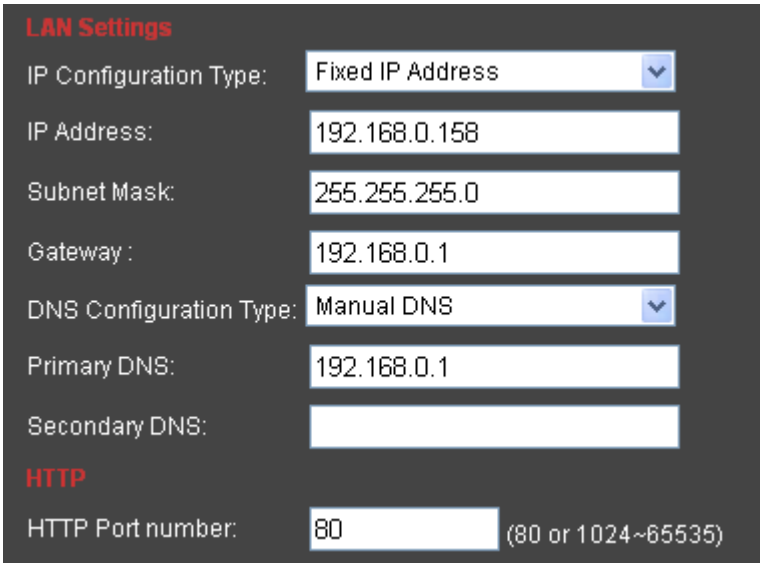


Figure 18

1 **LAN Setting:** The default setting of this equipment is showed as above Figure 18, user can change it according to your network environment.

2 **HTTP Port:** The IP address Identity one IP camera in the network, you can run several programs on this equipment, and every program will transfer the data through some port, in fact data is transferred from one port to another. The port setting of this page is asking user choose which port to transfer the data for the web server.

3 **WIFI Setting:** The wireless setting page is showed as below Figure 19, user can click the “Search” button, it will show you the page telling you the WIFI netwo detected. Please choose one of it, and the network data will fille automatically. (For example, SSID, encryption algorithm etc). User only needs to fill in the password and retype the password. After you configured it, you ca “Check” button to check if there is any mistake.

	Make sure the IP camera you are using is /W model before configuring the WIFI setting.

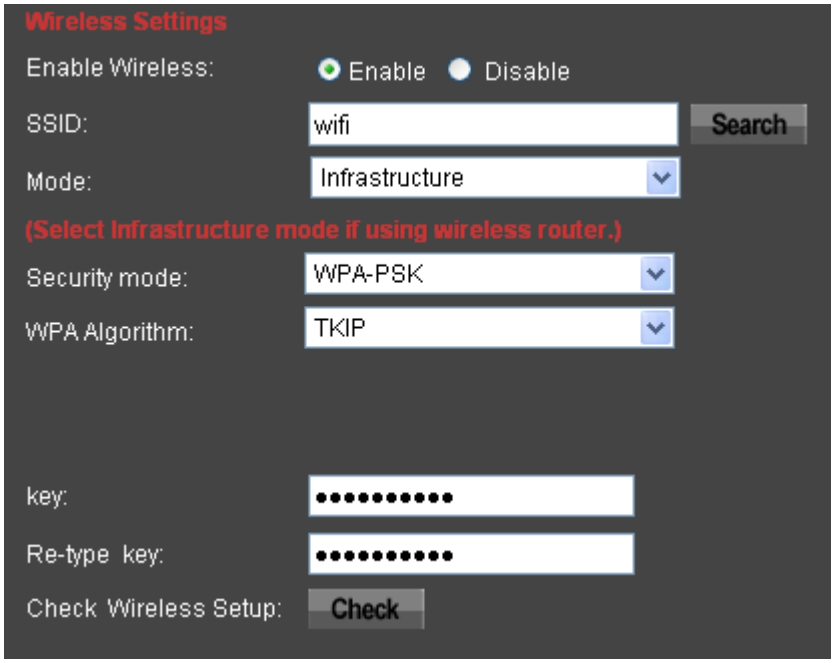


Figure 19

	If the equipment has been linked to the Ethernet cable, and the WIFI function was started. The equipment will choose the wire connection with the network first. If the connect does not work, it will choose WIFI connection. No matter choose Ethernet cable to connect or WIFI to connect, the IP address and port number of it are the same.

7.2.2 Remote Access Setting

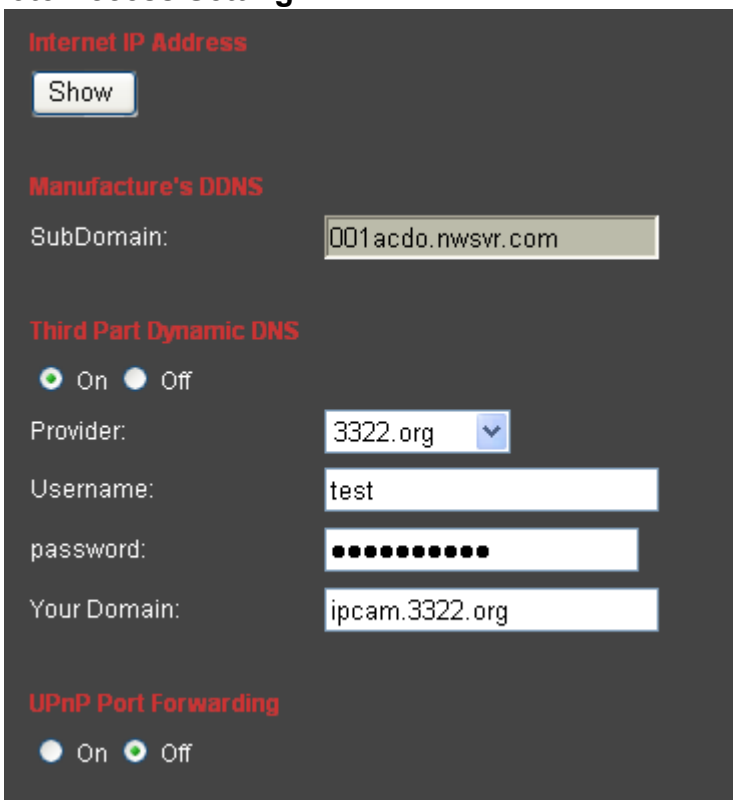


Figure 20

1 、 **WAN IP Test:** Click the “Show” button as above Figure 20, it will show you another new

page displaying the WAN IP address when it is connected to the Internet.

2） **Manufacturer's DDNS and Third Part Dynamic DNS:** Please refer to the content of the part 6.2.

3） **UPNP:** UPNP stands for universal plug and play, if you started UPNP, once the camera was connected into the LAN, it will communicate with the router of the LAN. It will request the router to open a port to forward its own port. User doesn't need to log in the router to set the port forwarding.

	Before using UPNP function, please make sure the router's UPNP function has been triggered. Because there are so many different routers, and not all of them can support UPNP. Please test if the router work well with the equipment, if not, we would suggest you don't enable this function.

7.3 Alarm Setting Page

7.3.1 External Alarm Input

Figure 21 below has listed the external alarm input setting. If the alarm input pins h connected with an alarm detector (Figure 4), please tick the "External Alarm", and then you will have enabled external alarm function. If the external alarm detector is ope please tick "Open", vice versa.

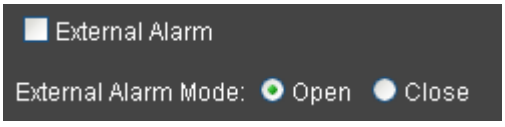


Figure 21

7.3.2 Motion Detection Setting

If user wants to monitor a certain area's movement, please select the motion detection to trigger alarm. The motion detection setting page is showed in Figure 22. This equipment supports four areas settings. By ticking the options, on the screen, it will show you the area frame, and the areas are numbered. Using the mouse to drag the area frame, you c change the position of the frame, and to drag the right bottom corner of frame, you c change the size of frame. After setting is finished, click "Apply" button, then the detection is enabled.

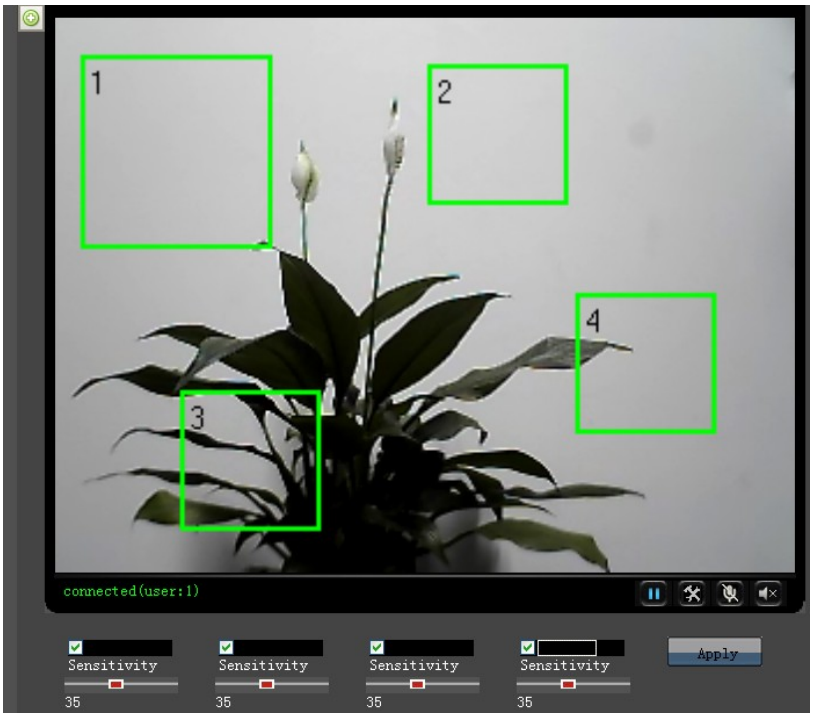


Figure 22

7.3.3 Alarm Mode Setting

When the alarm is triggered, user can adopt several ways to alarm.

- Snapshot a live picture of the site on the SD card.
- Record a 30 seconds long video on the SD card (including 5 seconds long video before the alarm was triggered).
- Send the recorded video on the SD card to the FTP server (Please enable “save the video on SD card” function and insert the SD card first).
- Relay on (refer to Figure 2 and Figure 3), enable external alarm function and set the time.
- Send alarm info to the alarm server.
- Send alarm info to E-mail.

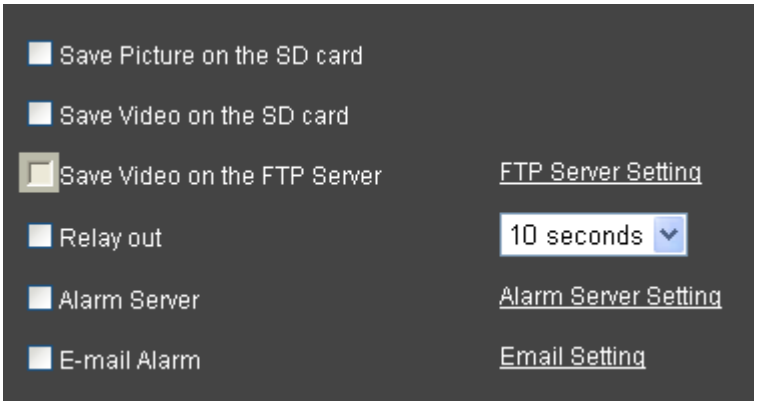


Figure 23

7.3.4 Alarm Time Setting

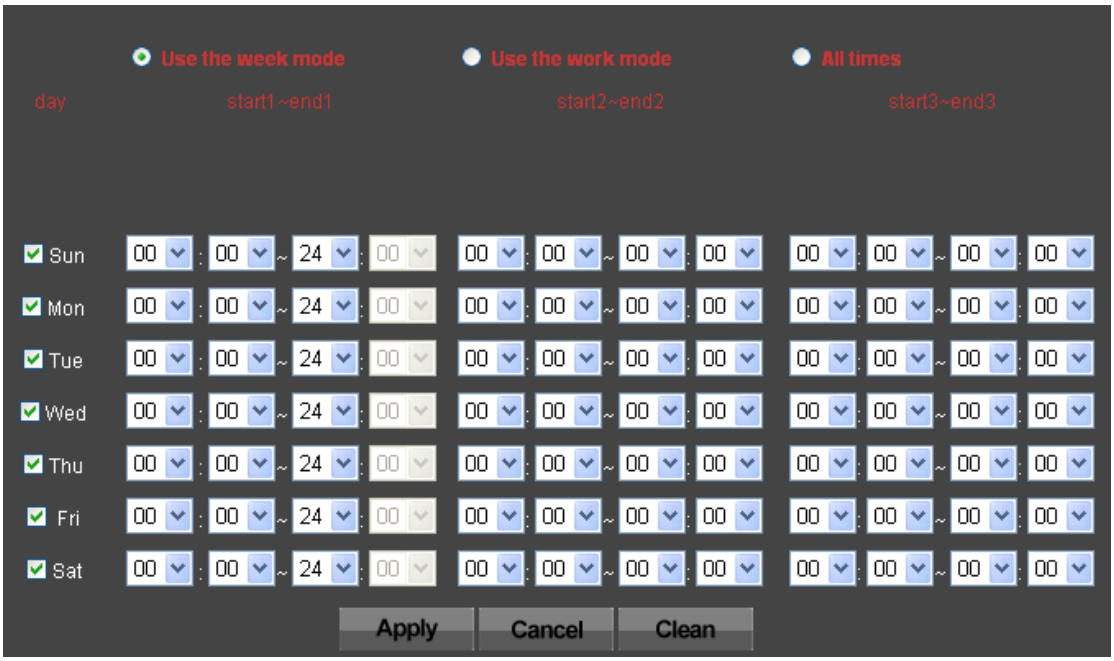


Figure 24

IP Camera will trigger alarm only on the time set by Figure 24.

	Please adjust the system time first. Refer to Part 7.5.1

7.4 Advance Setting

7.4.1 User Management

There have three level of authority; they are admin/user/guest. Admin have the authority, it can do any change to the settings. User account only can operate the IP camera, can't do changes to the settings, and please refers to Figure 26. Guest account only can watch the video, can't do any operation to the IP camera, and please refers to Figure 27.

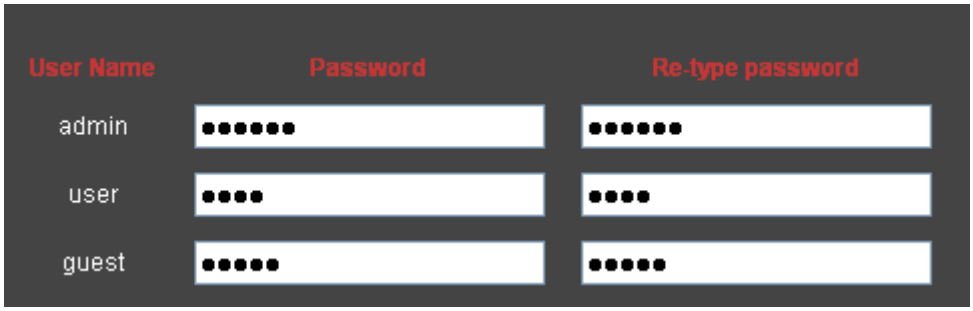


Figure 25

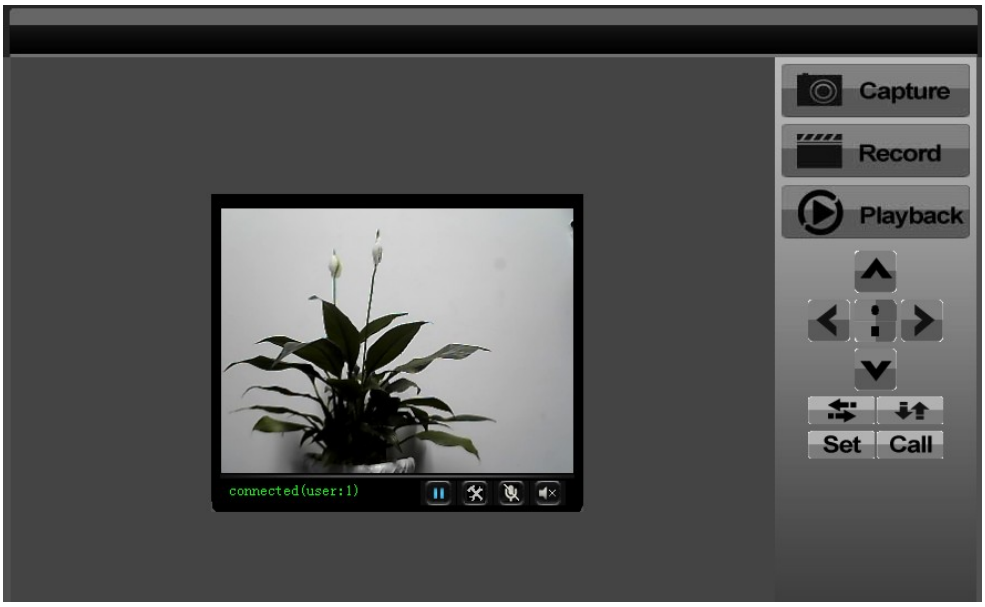


Figure 26

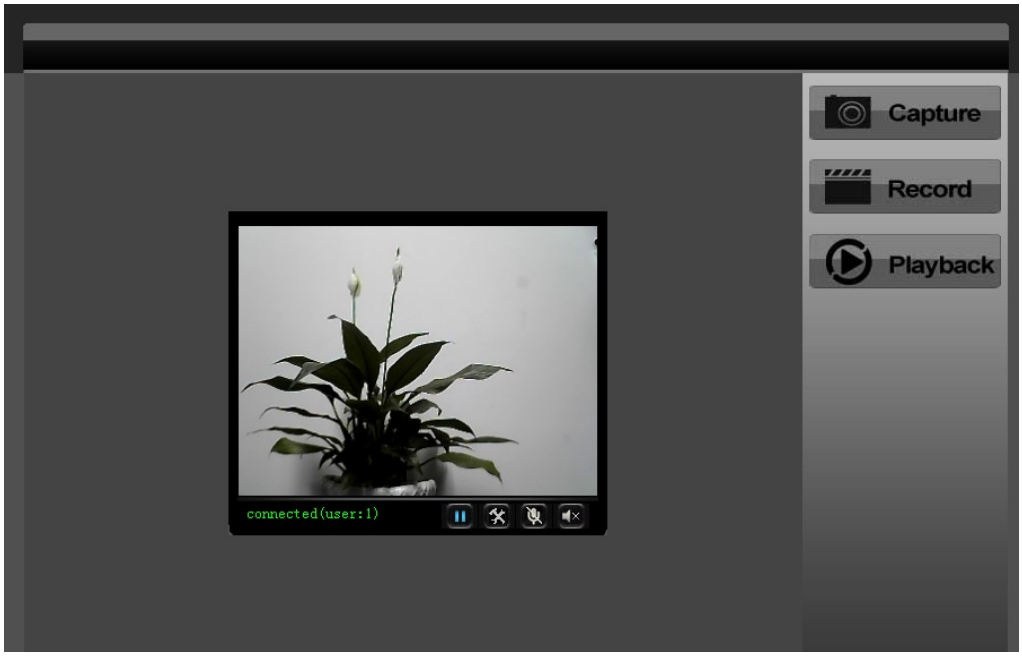


Figure 27

7.4.2 Auto Capture Setting

Figure 28

Please tick “save picture on the SD card”, the equipment will snapshot every short time (for example, showed as Figure 28, every 60 minutes)

7.4.3 E-mail Setting

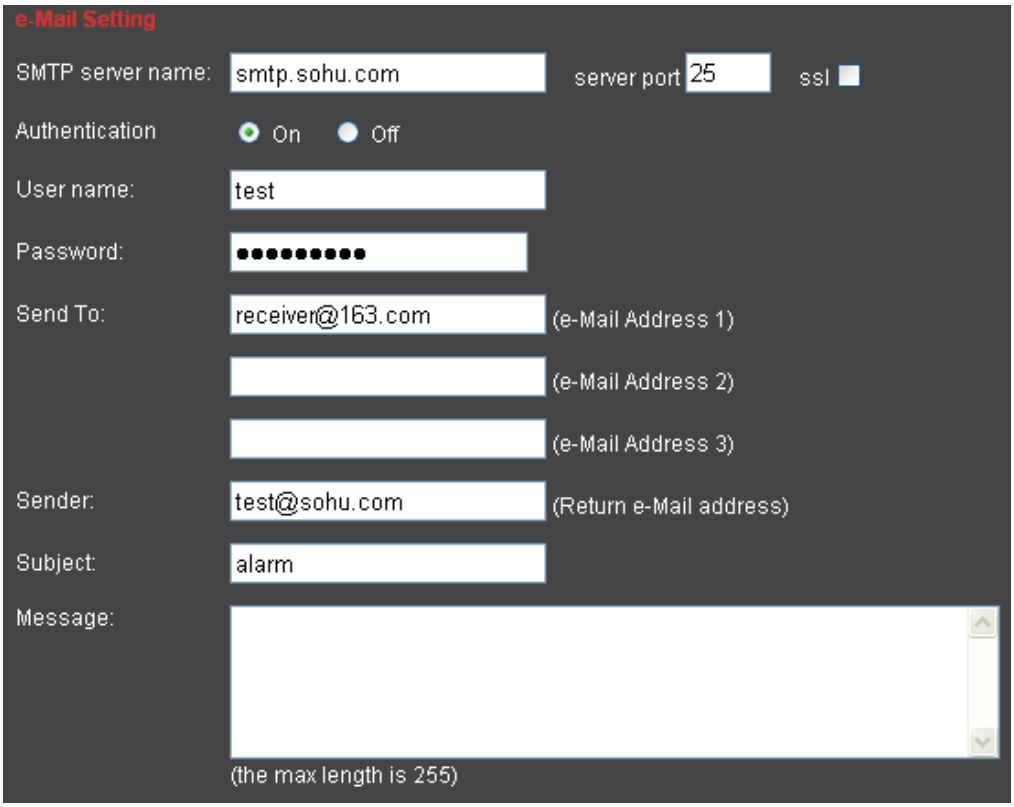


Figure 29

In Figure 29, the blanks which have been filled with info should be filled. If any info is not filled right, the setting will fail.

	Before setting these parameters, please refer the settings of Outlook Express.

7.4.4 FTP Setting

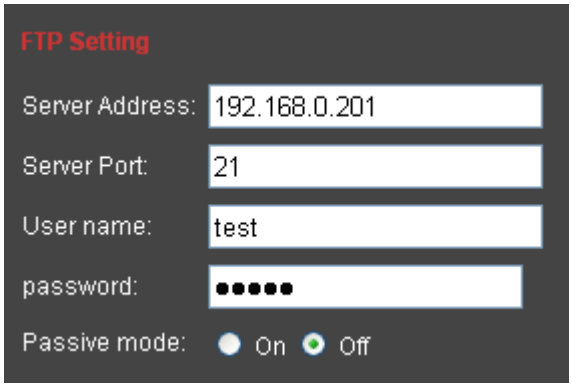


Figure 30

	In order to use FTP function, user should apply username and password on the FTP server first. And please apply some storage, and the authority to write and create sub-category into it.

7.4.5 Alarm Server Setting

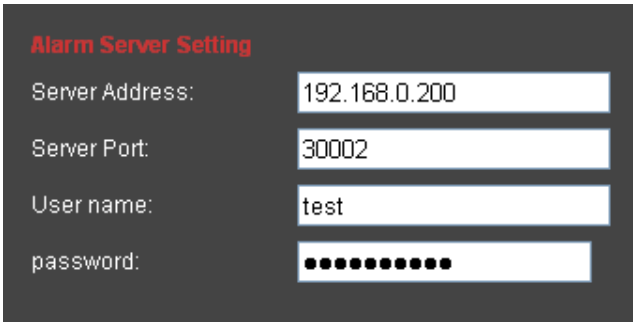


Figure 31

Please confirm if you have connected to alarm server. The alarm message format as follow:

GET /api/alarm.asp
username=username&
userpwd=password&
rea=alarm type (1=Motion Detection, 2 =Alarm from Alarm in port, 3 =Other Type)&
io=0

Alarm server need develop by customer; user can extend other functions on this server, like SMS, MMS alarm, and mobile phone etc.

7.5 System Setting Page

7.5.1 Date and Time Setting

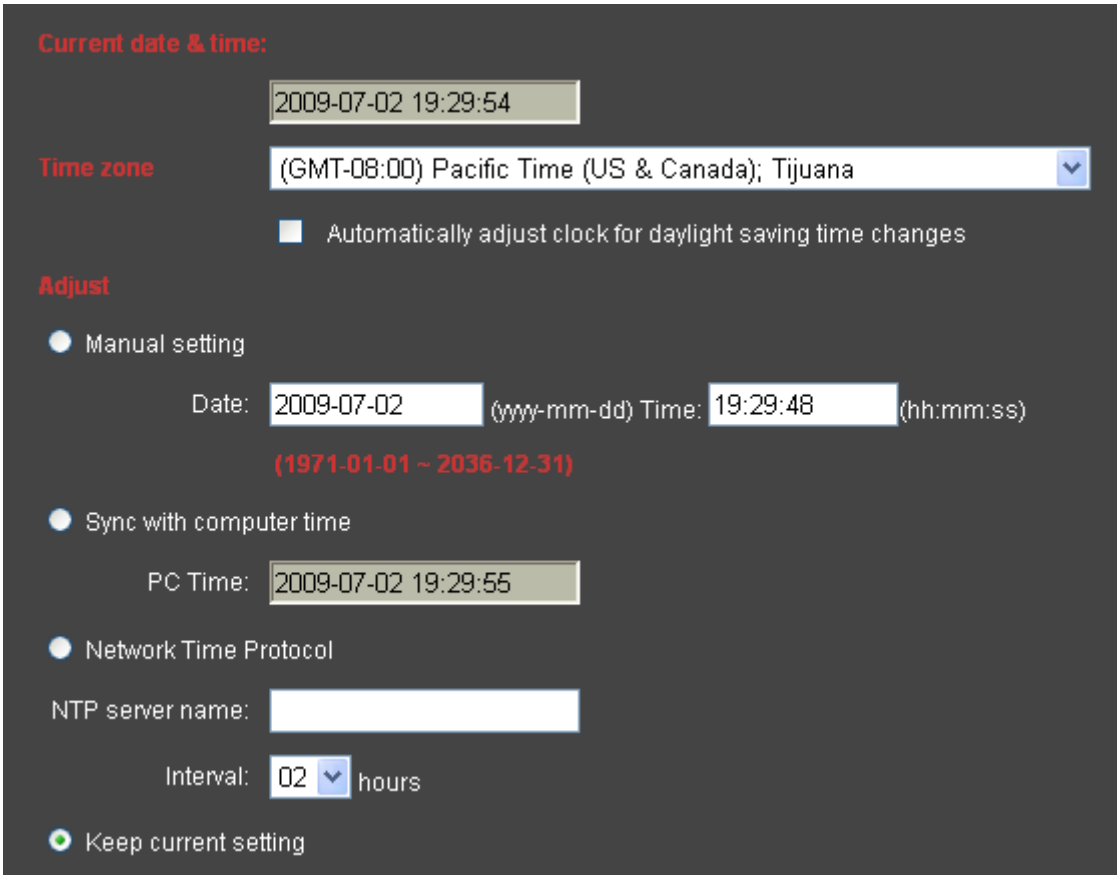


Figure 32

Please refer to above Figure 32. Select the time zone first. There are three options to set the time and date. One is manually, another is keeping the same as the time and date on the computer, and the third one is getting it from the NTP server.

7.5.2 Default Setting

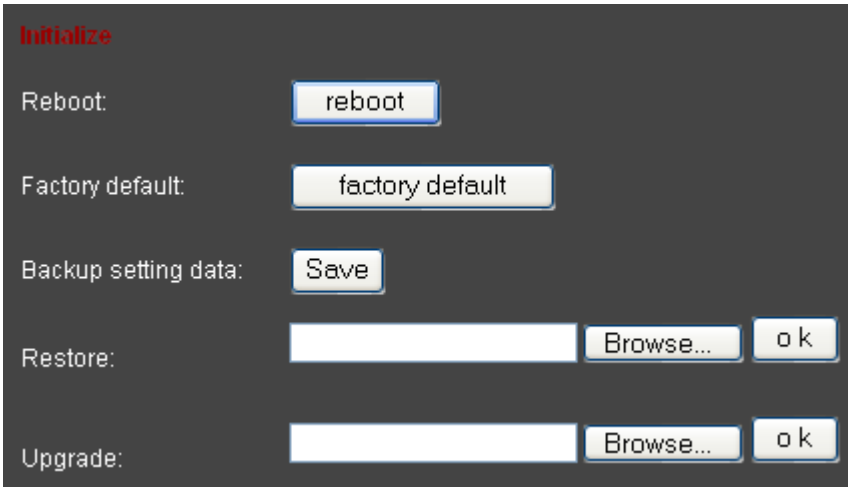


Figure 33

- Reboot button to restart the equipment, if you have set the pre-position, and it will turn this position.
- Click “Factory Default” button, equipment will restart and back to all the default settings.
- Click “save”, it will save all the present settings.
- “Restore” part, select the setting file you have saved, click OK, it will recover all t settings.
- “Upgrade” part, select the firmware file for upgrading, click OK, and you are able upgrade the equipment. After the upgrading, equipment will restart. Upgrading took a little long, please wait patiently. If upgrading is finished, it will show you a message to remind you.

7.5.3 Device Information Checking

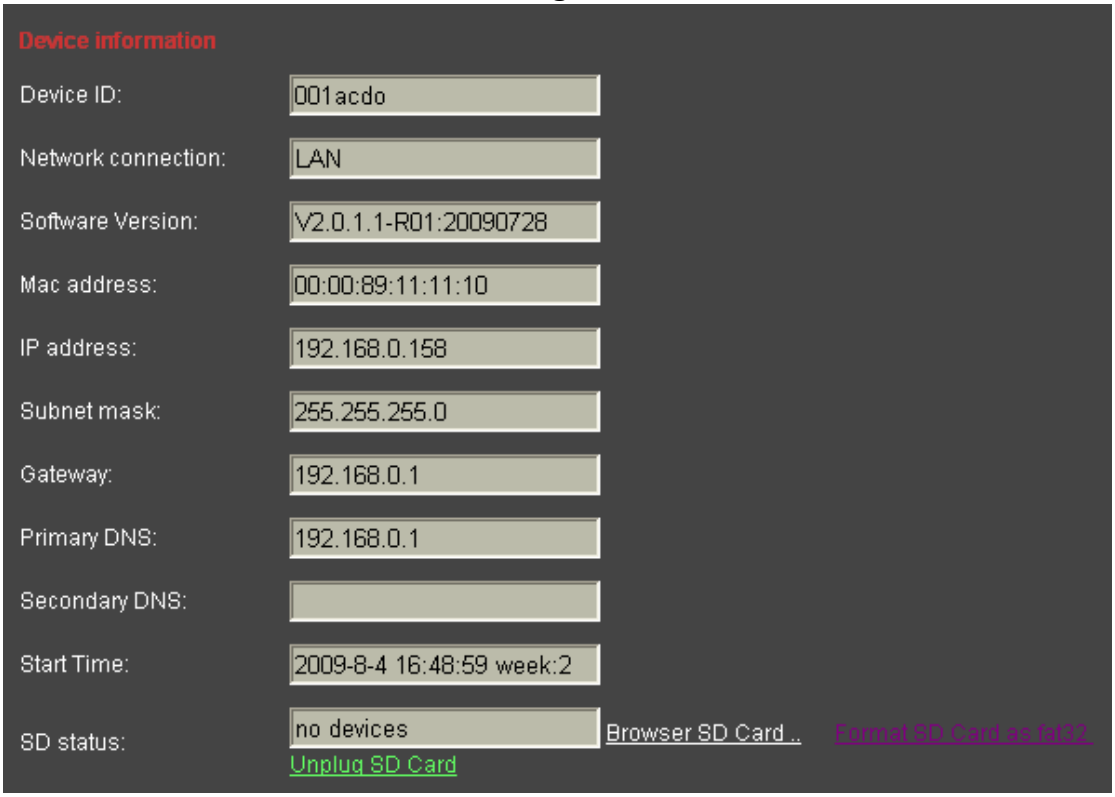


Figure 34

- Device ID is set by factory. Every ID is unique
- Network Connection status will display "LAN" when connected by wired ca
  display "Wireless LAN" connected by wireless Router.
- SD status will remind if SD card inserted and display the free capacity. Click "Browse" to view the contents in SD card and, "Format SD Card as fat32" to format SD Card and, "Unplug SD Card" to stop the work of SD Card.

	The device supports max 32G SD card. Please format the SD card to FAT32 before use the card on Camera. Please check if the SD Card matches the camera or not before purchase the SD Card.

7.5.4 System Log Checking

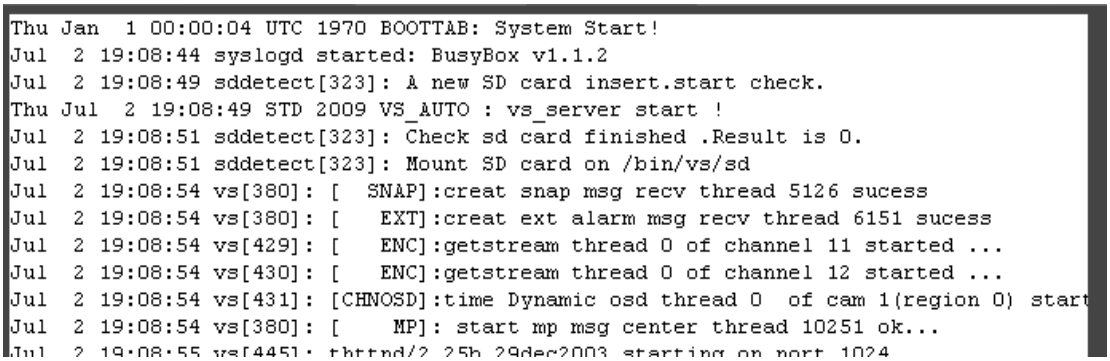

Thu Jan 1 00:00:04 UTC 1970 BOOTTAB: System Start!
Jul 2 19:08:44 syslogd started: BusyBox v1.1.2
Jul 2 19:08:49 sddetect[323]: A new SD card insert.start check.
Thu Jul 2 19:08:49 STD 2009 VS_AUTO : vs_server start !
Jul 2 19:08:51 sddetect[323]: Check sd card finished .Result is 0.
Jul 2 19:08:51 sddetect[323]: Mount SD card on /bin/vs/sd
Jul 2 19:08:54 vs[380]: [SNAP]:creat snap msg recv thread 5126 sucess
Jul 2 19:08:54 vs[380]: [EXT]:creat ext alarm msg recv thread 6151 sucess
Jul 2 19:08:54 vs[429]: [ENC]:getstream thread 0 of channel 11 started ...
Jul 2 19:08:54 vs[430]: [ENC]:getstream thread 0 of channel 12 started ...
Jul 2 19:08:54 vs[431]: [CHNOSD]:time Dynamic osd thread 0 of cam 1(region 0) start
Jul 2 19:08:54 vs[380]: [MP]: start mp msg center thread 10251 ok...

Figure 35

7.5.5 User browsing Log Checking

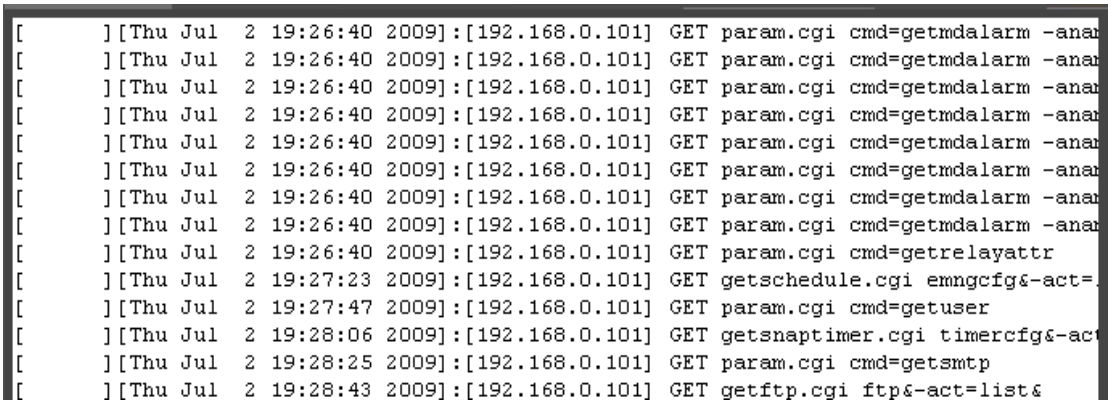


Figure 36

8 Advanced Application

8.1 Mobile phone Browsing

The device can be visited via mobile phone when it is connected to internet. Below are the visit methods:

1 、 http://IP:Port/mobile.html or http://IP:Port/wap.wml. The “IP” is the WAN IP address of the IP Camera or domain name (third party domain name only), if HTTP port is 80, the “port” of 80 can be omitted. For examples:

http://58.61.54.177:1025/mobile.html

http://58.61.54.177:1025/wap.wml

http://test.3322.org:1025/mobile.html

2、 http://Series NO.mobile.nwsvr.com. Only add ".mobile" into factory domain name. For example:

http://001acdo.mobile.nwsvr.com

3、 http://Series NO.nwsvr.com or third party domain name.

D i m f oa fi lb r ewv ie dr i nl ie tv e e fmh s f esT eft i h mn i h t e e r o t tmd o h t o s t o s s d t all the mobiles; the second one for the intelligent mobile; and the third one only for IPHONE. When visit the device by the first and second methods, the device will send the pictures by MJPED compression format to the mobiles. The size of the pictures will be depended on the mobile resolution mentioned in 7.1.2. The third method to visit it, the whole operation will be the same as visiting by PC

8.2 Other web browser visit device

Using browser with IE kernel, user must download the Activex. Using other web browser like Safari or Firefox, it will use Qicktime to play. Safari for example, you can find the play

interface as the below Figure 37.

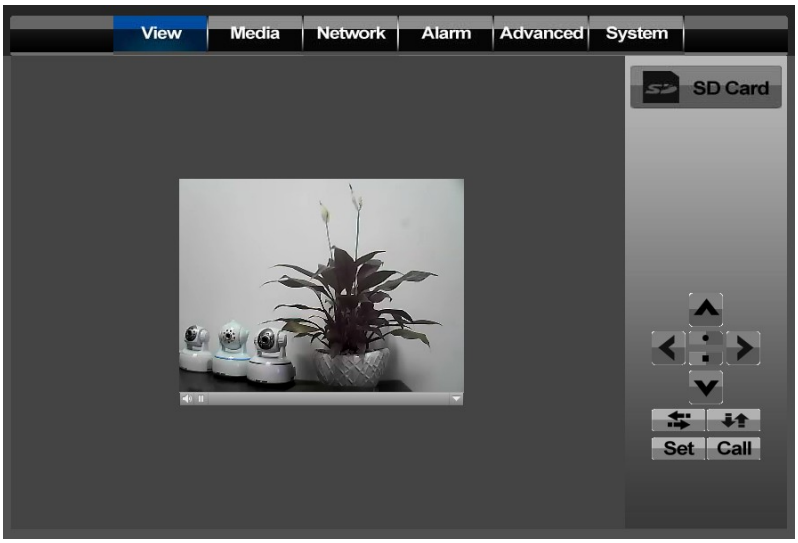


Figure 37

The software will trigger the QuickTime as player when the browsing interface opened.

If there is no QuickTime in computer, a wizard will pop up to ask user set

QuickTime. After set up finished, please click the down right corner and select “Setting”

1) Select “Advanced” option in the pop-up dialog.
2) Select “custom” in “Transmit Setting”, and then select “HTTP”, set the port as device http port. Then click “OK”
3) Set the “Transmit Setting” in “Auto” Status and click “OK”. Then the device ca visited.

Record, Snap, Record Play and Audio functions are not available in this interface.

8.3 Centralization Control Software

IPCMonitor is a free software offered by factory, several devices on LAN and WAN can be browsed at the same time. The software also support snap, video record and so on. The below Figure 38 is the interface.

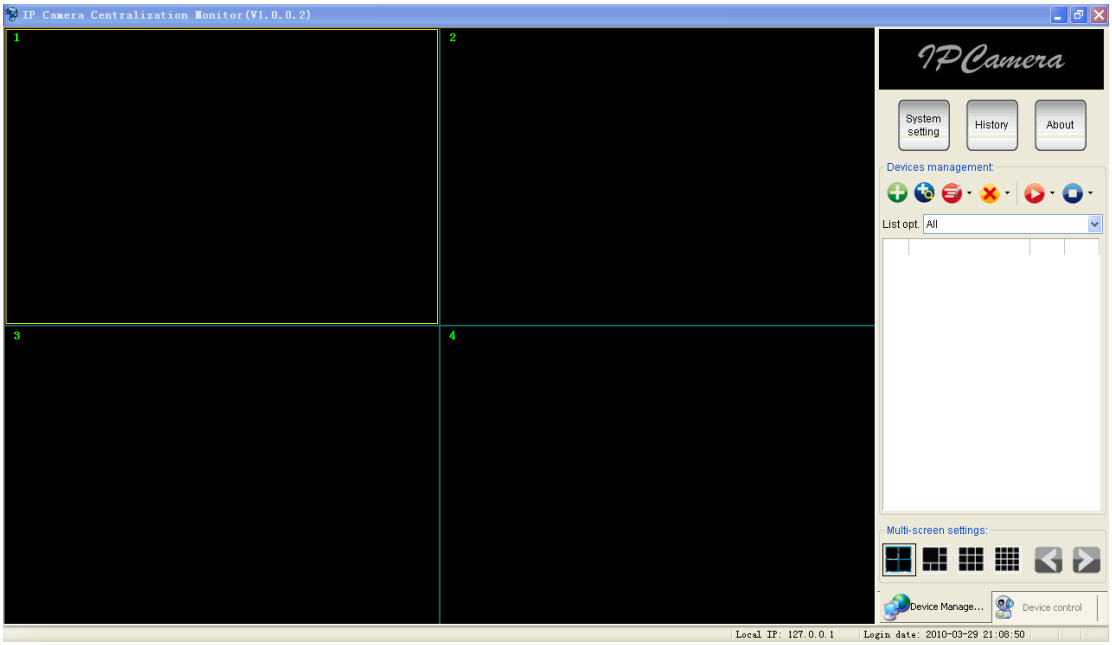


Figure 38

For more information, pls. refer the <<IPCMonitor User Manual>> in CD.

9 Technical Parameters

Item	Sub item	Description
Image Capture	Sensor	1/4" CMOS sensor
	Total of pixel	300k
	Minimum illumination	IR lights on 0 Lux
	Lens	f=4.5mm, F=2.0, Fixed Iris
Pan/Tilt	Pan Coverage	350°
	Tilt Coverage	60°
	Preset Numbers	1
Assistant	Lighting Control	Auto/manual control
	Lighting	8pcs 850nm Infrared lights, 5m distant
Video and Audio	Resolution	VGA/QVGA/QQVGA
	Compression	H.264
	Frame rate	30fps
	Bit rate	128kbps ~ 2.048Mbps
	Image Rotation	Mirror /Up-side down
	OSD	support
	Audio Compression	G.711
Network	Basic Protocol	TCP/IP、UDP/IP、HTTP、SMTP、FTP、DHCP、DDNS、UPNP、 NTP
	Other Protocol	WIFI
Other Features	Mobile Phone View	M-JPEG and H.264 dual streaming, M-JPEG Streaming sent to mobile phone

	Video control	support
	Dual way audio	support
	Memory	Snap or video into SD card
	Browser SD card	View or download from network
	Motion Detection	yes(4 zone detection)
	Triggered Actions	Email/FTP/SD storage/external alarm/send message to alarm server
	User Setting	Three levels
	Date/ Time Setting	support
	Upgrade	Upgrade from network
	DDNS	A free DDNS provided by manufacturer
Hardware Interface	Ethernet	10Base-T/100base-TX
	Memory	SD Slot
	Alarm In	1 way
	Alarm Out	1 way
	Audio In	Internal mic x 1, audio input interface x 1
	Audio Out	audio output interface x 1
Physical Index	Weight	358g
	Main body	111mm(L)*107mm(W)*121mm(H)
	Power	DC 5V
	Power consumption	<6W
	Operating temperature	0□~ 45□
	Humidity	10% ~ 80% non-condensing
Software(PC Side)	OS Supported	Microsoft Windows 98/2000/XP/Vista, Mac OS
	Browser	Internet Explorer6.0 and Above or Compatible Browser, Safari/Firefox etc.
	Application Software	IPCMonitor.exe